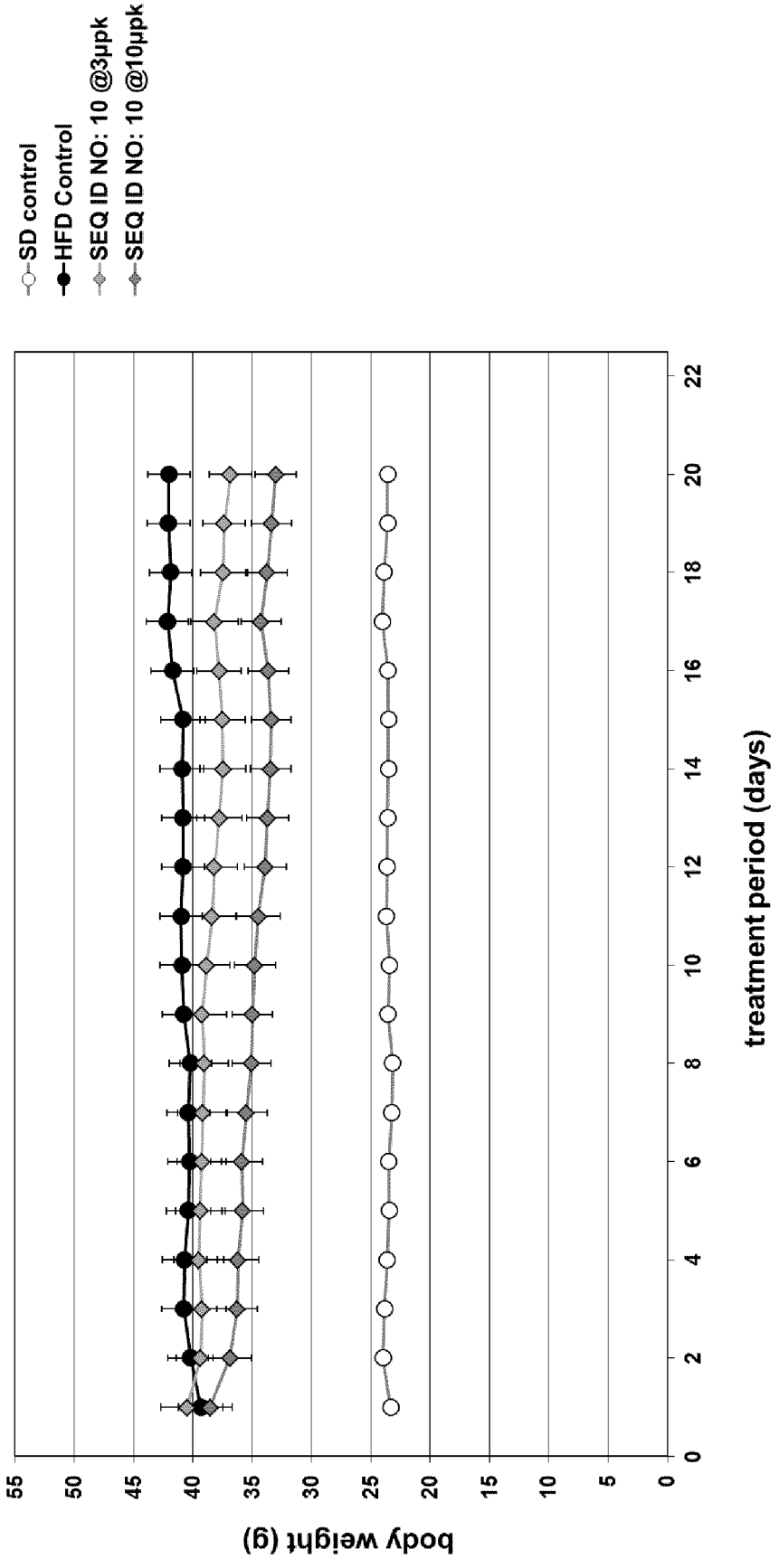

SD control
HFD Control
SEQ ID NO: 10 @3µpk
SEQ ID NO: 10 @10µpk
body weight (g)
55
50
45
40
35
30
25
20
15
10
5
0
0
2
4
6
8
10
12
14
16
18
20
22
treatment period (days)

Fig. 1

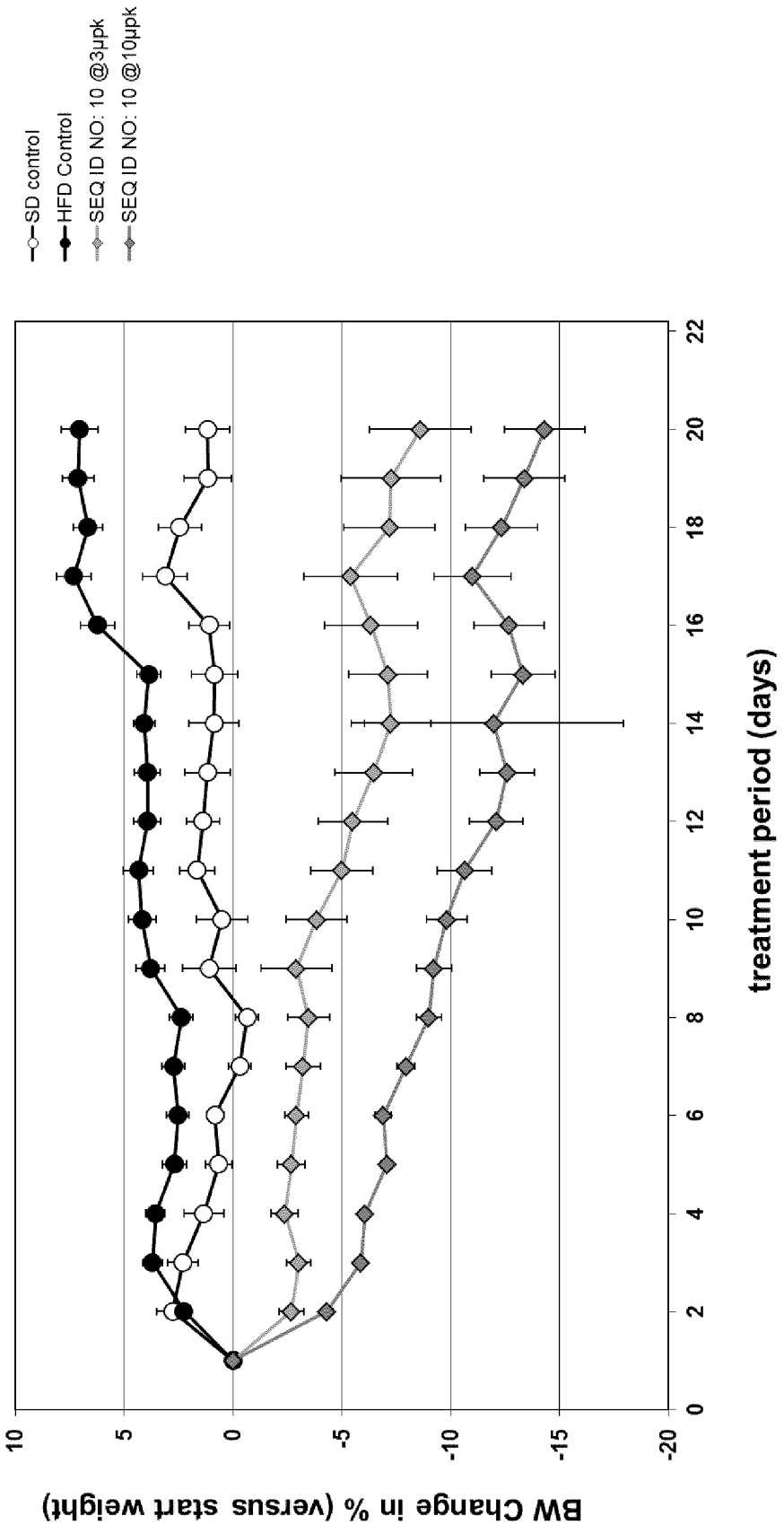

SD control
HFD Control
SEQ ID NO: 10 @3µpk
SEQ ID NO: 10 @10µpk
BW Change in % (versus start weight)
10
5
0
-5
-10
-15
-20
0
2
4
6
8
10
12
14
16
18
20
22
treatment period (days)

Fig. 2

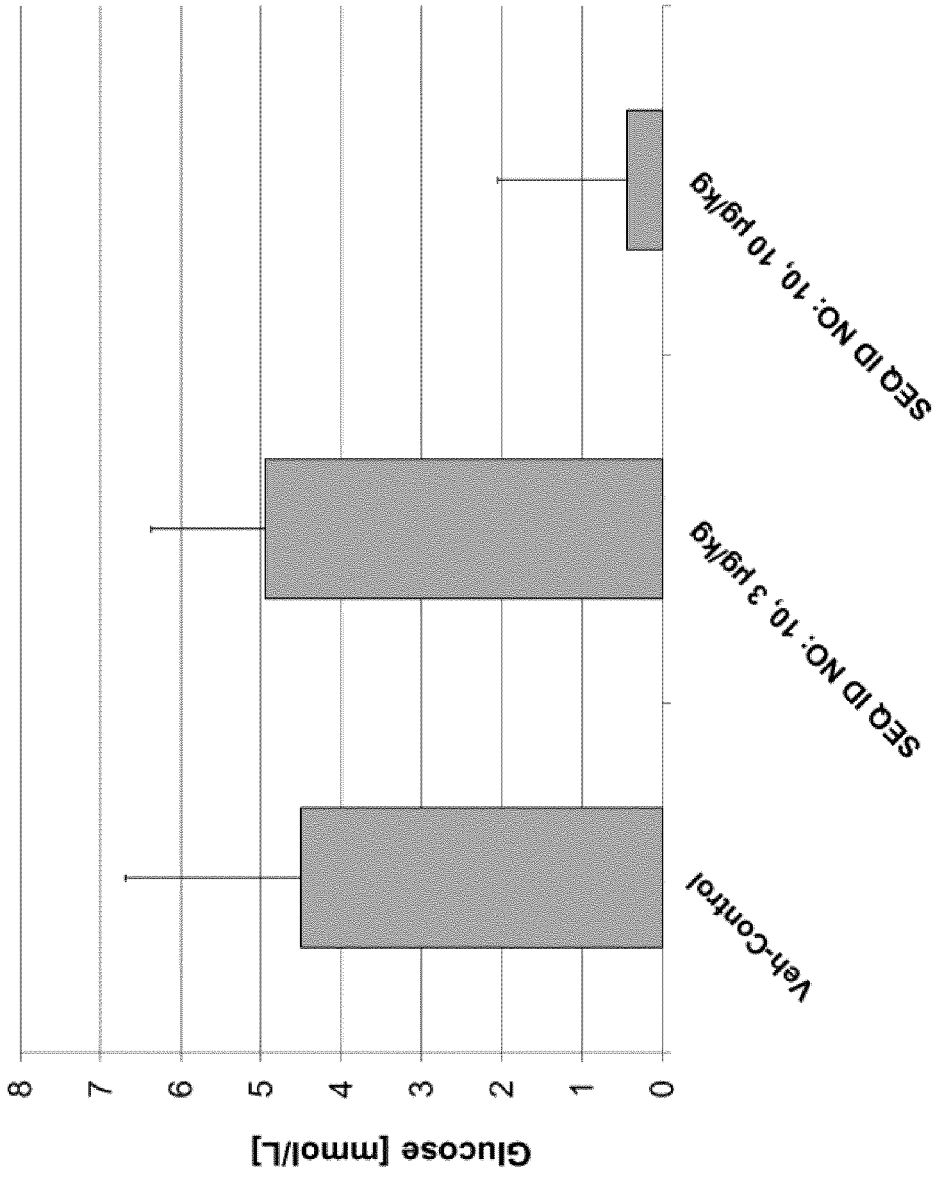

Glucose [mmol/L]
0
1
2
3
4
5
6
7
8
Veh-Control
SEQ ID NO: 10, 3 µg/kg
SEQ ID NO: 10, 10 µg/kg

Fig. 3:

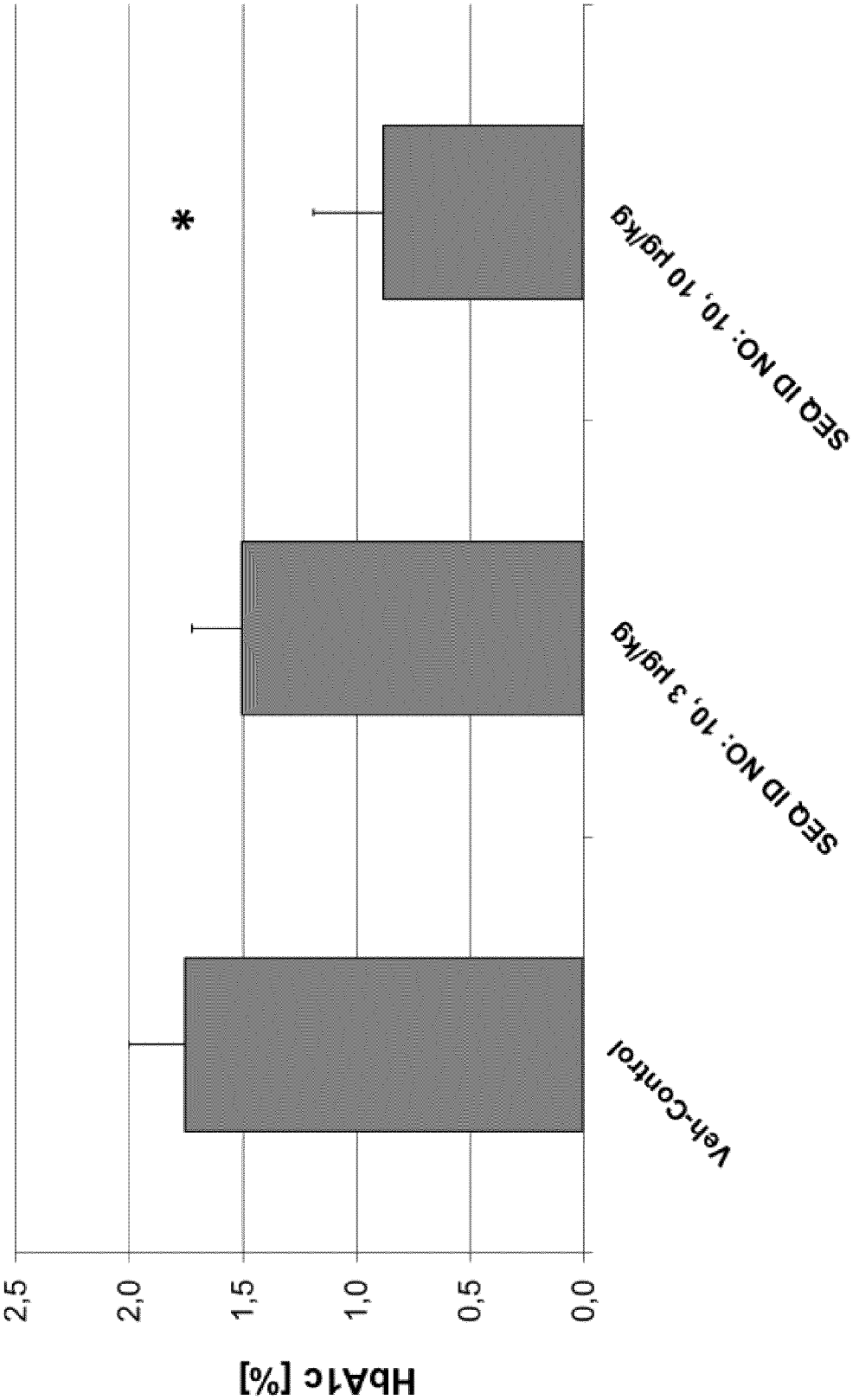

HbA1c [%]
2,5
2,0
1,5
1,0
0,5
0,0
*
Veh-Control
SEQ ID NO: 10, 3 µg/kg
SEQ ID NO: 10, 10 µg/kg

Fig. 4:

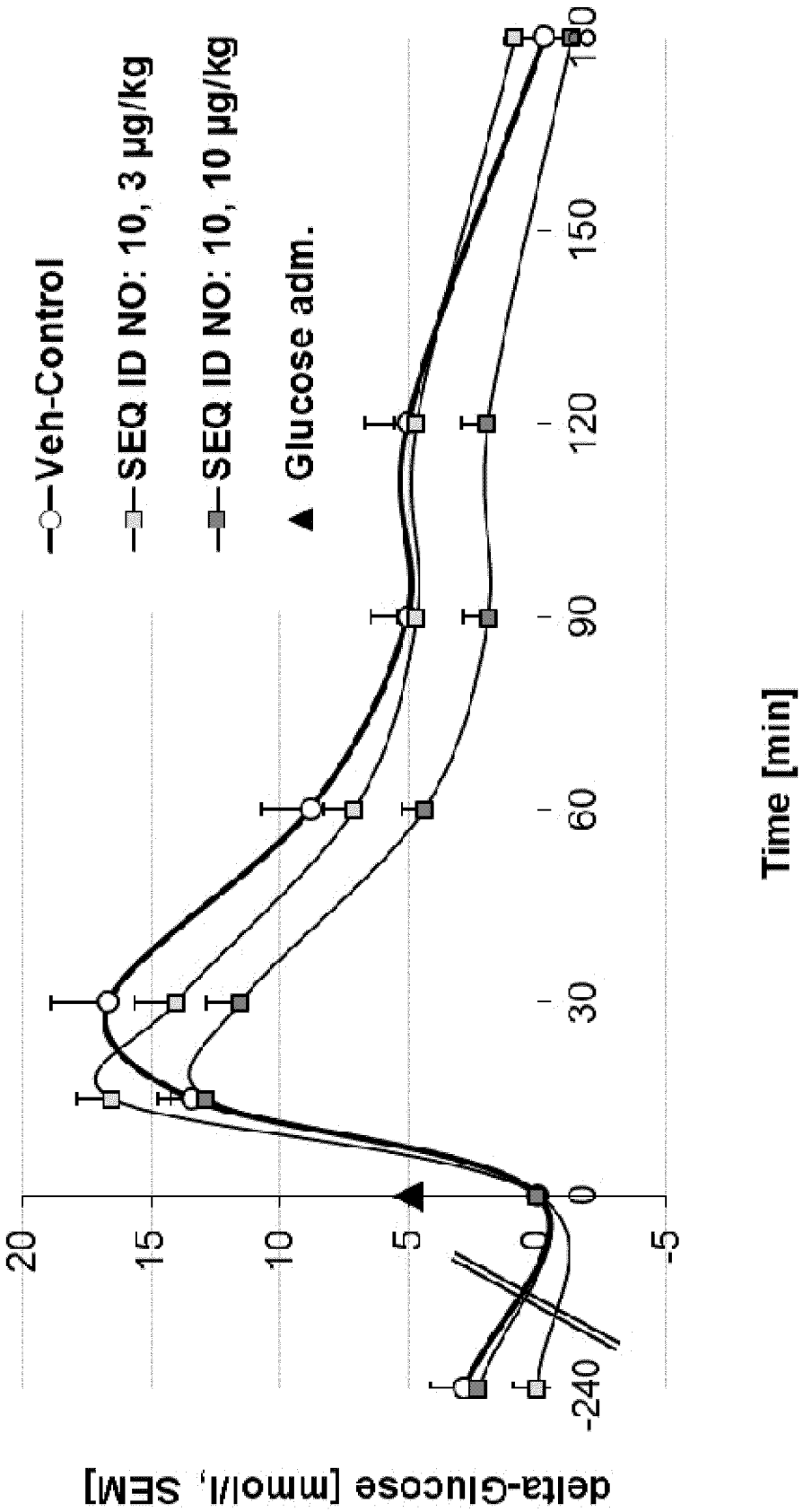

Veh-Control
SEQ ID NO: 10, 3 µg/kg
SEQ ID NO: 10, 10 µg/kg
Glucose adm.
delta-Glucose [mmol/l, SEM]
Time [min]
20
15
10
5
0
-5
-240
0
30
60
90
120
150
180

Fig. 5:

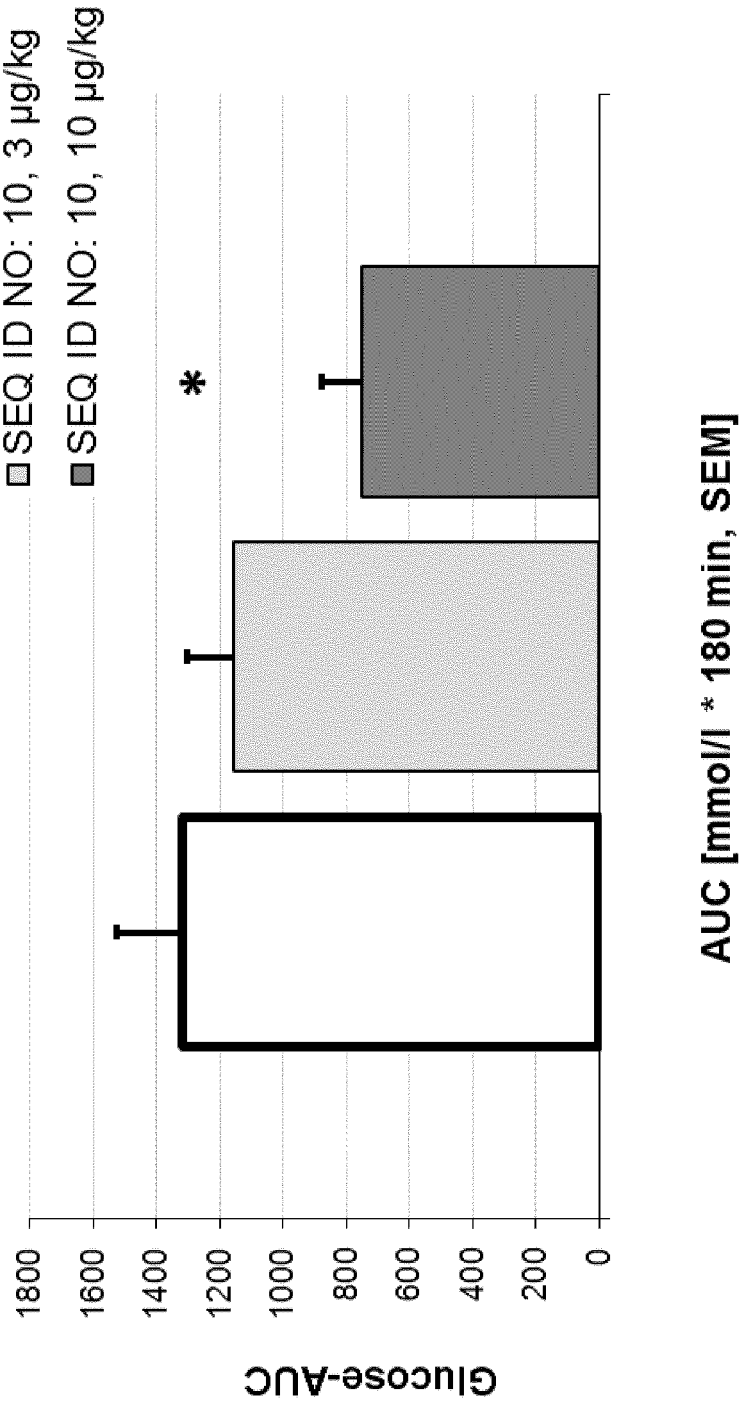

Veh-Control
SEQ ID NO: 10, 3 µg/kg
SEQ ID NO: 10, 10 µg/kg
*
Glucose-AUC
1800
1600
1400
1200
1000
800
600
400
200
0
AUC [mmol/l * 180 min, SEM]

Fig. 6:

Fig. 7:

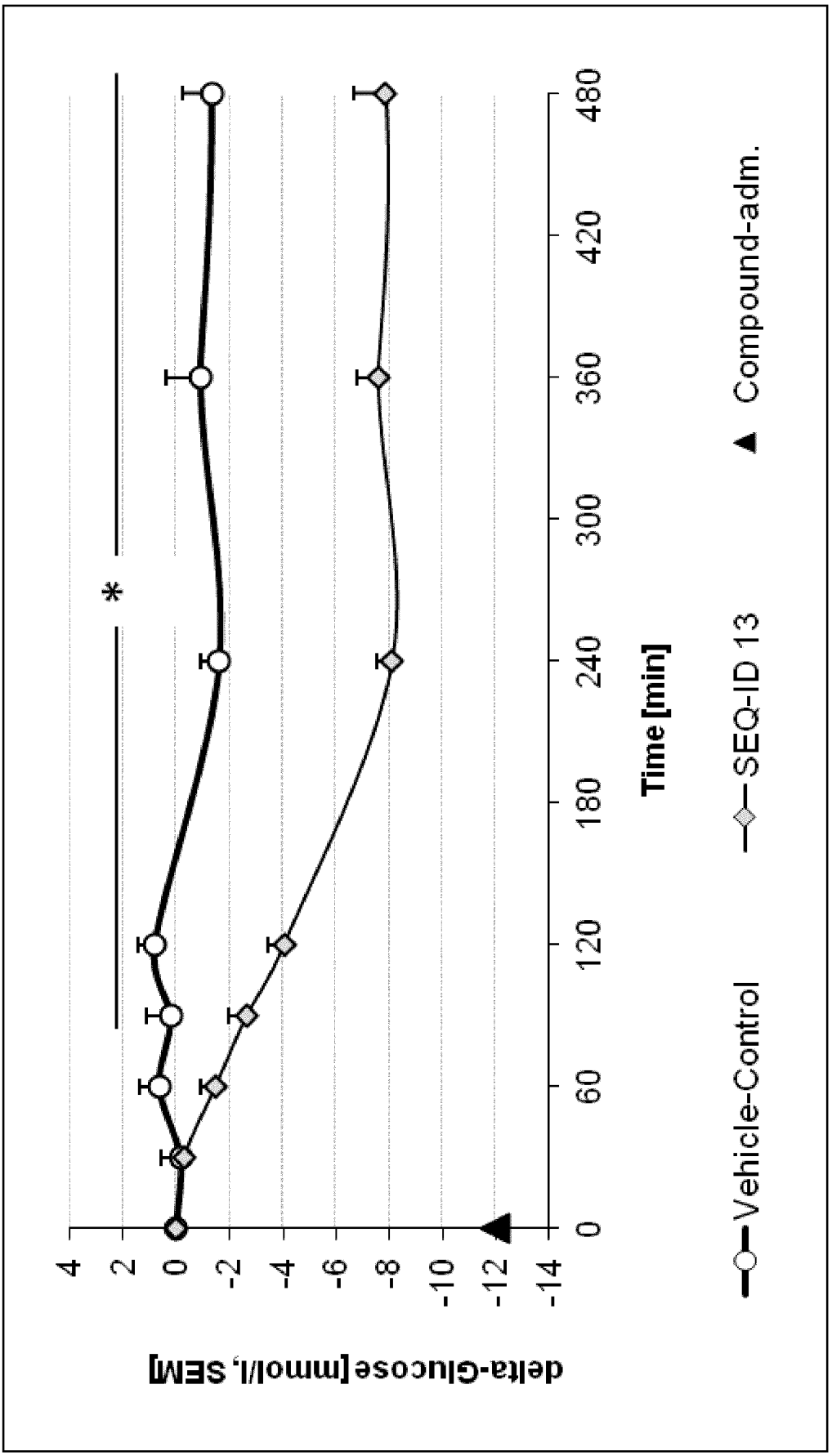
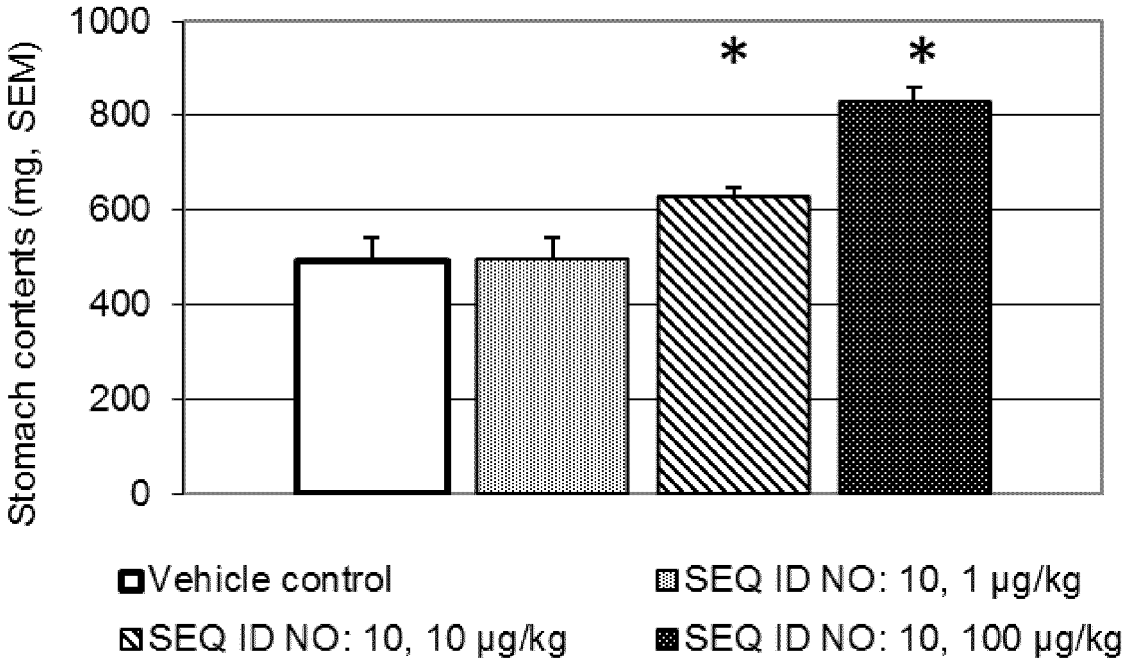
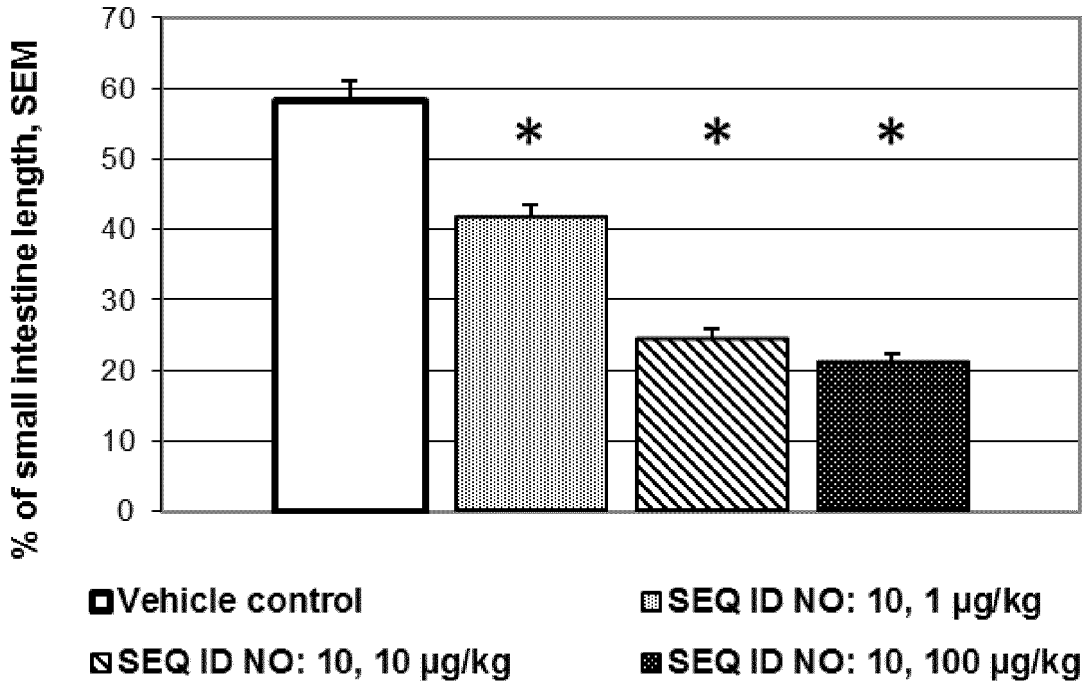

delta-Glucose [mmol/l, SEM]
4
2
0
-2
-4
-6
-8
-10
-12
-14
0
60
120
180
240
300
360
420
480
Time [min]
*
Vehicle-Control
SEQ-ID 13
Compound-adm.

Fig. 8:

a)


Stomach contents (mg, SEM)
1000
800
600
400
200
0
*
*
Vehicle control
SEQ ID NO: 10, 1 µg/kg
SEQ ID NO: 10, 10 µg/kg
SEQ ID NO: 10, 100 µg/kg

b)


% of small intestine length, SEM
70
60
50
40
30
20
10
0
*
*
*
Vehicle control
SEQ ID NO: 10, 1 µg/kg
SEQ ID NO: 10, 10 µg/kg
SEQ ID NO: 10, 100 µg/kg

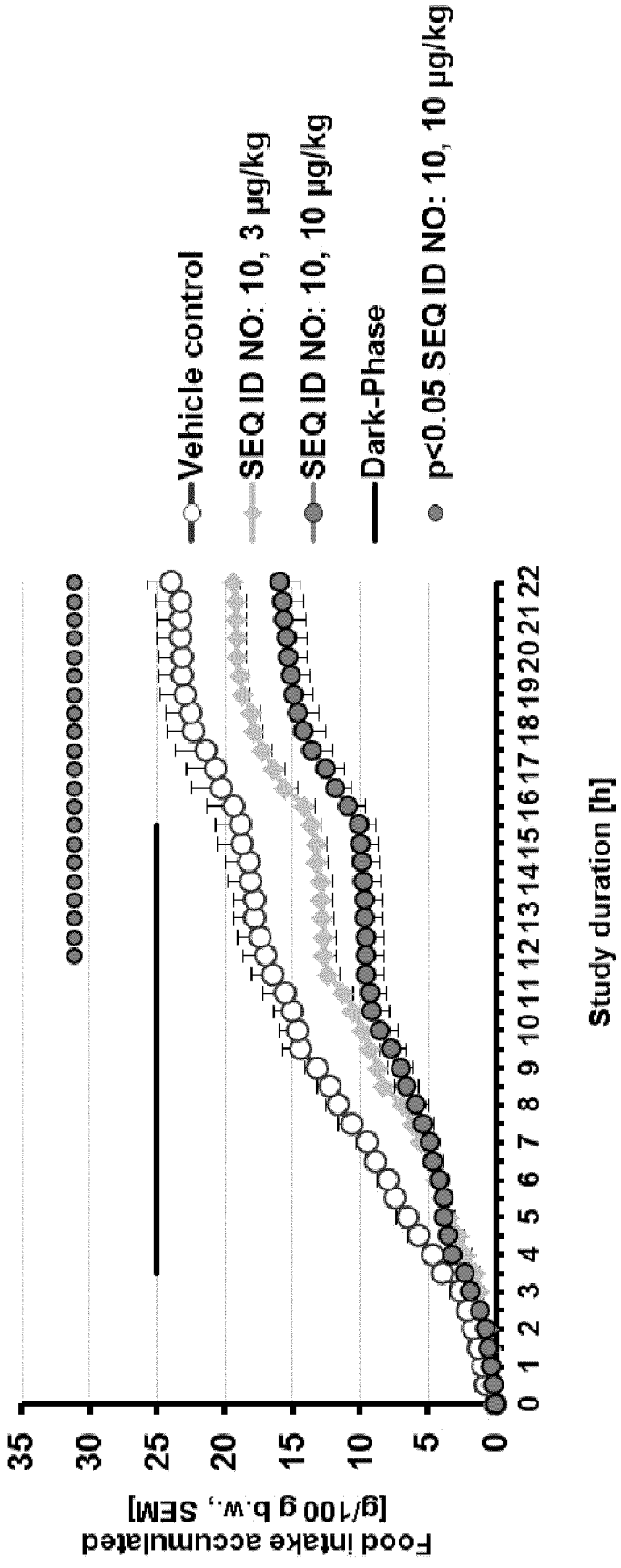

Vehicle control
SEQ ID NO: 10, 3 µg/kg
SEQ ID NO: 10, 10 µg/kg
Dark-Phase
p<0.05 SEQ ID NO: 10, 10 µg/kg
Food intake accumulated
[g/100 g b.w., SEM]
0
5
10
15
20
25
30
35
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22
Study duration [h]

Fig. 9: